

## EAST Search History

| Ref # | Hits | Search Query                           | DBs                                       | Default Operator | Plurals | Time Stamp          |
|-------|------|----------------------------------------|-------------------------------------------|------------------|---------|---------------------|
| L1    | 2    | "5846512"                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND              | ON      | 2008/08/29<br>12:34 |
| L2    | 0    | activated cer\$\$%<br>oxide            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ              | ON      | 2008/08/29<br>12:48 |
| L3    | 1    | activated cerium<br>oxide              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ              | ON      | 2008/08/29<br>12:48 |
| L4    | 1    | activated ceria oxide                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ              | ON      | 2008/08/29<br>12:48 |
| L5    | 130  | activated metal oxide                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | ADJ              | ON      | 2008/08/29<br>12:49 |
| S1    | 0    | ("10587066").PN.                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | OFF     | 2008/08/27<br>17:05 |
| S2    | 1    | "10587066"                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND              | ON      | 2008/08/27<br>17:05 |
| S3    | 160  | porous adj carrier<br>ceria adj oxide  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND              | ON      | 2008/08/27<br>18:23 |
| S4    | 160  | porous adj carrier<br>cerium adj oxide | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND              | ON      | 2008/08/27<br>18:23 |
| S5    | 71   | "4,587,231"                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND              | ON      | 2008/08/27<br>18:26 |

|     |       |                                                            |                                           |     |    |                     |
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| S6  | 75    | porous adj carrier<br>cerium adj oxide<br>atom             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/27<br>18:38 |
| S7  | 574   | metal adj oxide near<br>atom                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/27<br>18:45 |
| S8  | 153   | metal adj oxide near<br>atom catalyst                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/27<br>18:45 |
| S9  | 22718 | catalyst adj particles                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/27<br>18:48 |
| S10 | 3861  | catalyst adj particles<br>near size                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/27<br>18:49 |
| S11 | 1894  | catalyst adj particles<br>near size atom                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/27<br>18:49 |
| S12 | 384   | catalyst adj particles<br>near size atom and<br>nm         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/27<br>18:52 |
| S13 | 0     | catalyst adj particles<br>near size S10 adj<br>atom and nm | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/27<br>18:53 |
| S14 | 0     | catalyst adj particles<br>near size S1 adj atom<br>and nm  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/27<br>18:53 |
| S15 | 0     | catalyst adj particles<br>near size S2 adj atom<br>and nm  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/27<br>18:53 |
| S16 | 3     | catalyst adj particles<br>and S4 atom and nm               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/27<br>18:54 |
| S17 | 4843  | catalyst adj particles<br>thickness                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>10:50 |

|     |      |                                                        |                                           |     |    |                     |
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| S18 | 22   | catalyst adj particles<br>near thickness               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>10:50 |
| S19 | 992  | catalyst adj particles<br>near diameter                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>10:59 |
| S20 | 3866 | catalyst adj particles<br>near size                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>11:00 |
| S21 | 644  | catalyst adj particles<br>near size nm                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>11:00 |
| S22 | 249  | catalyst adj particles<br>near diameter nm             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>11:00 |
| S23 | 8    | catalyst adj particles<br>near diameter near<br>nm     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>11:03 |
| S24 | 720  | catalyst adj particles<br>diameter near nm             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>12:33 |
| S25 | 287  | catalyst adj particles<br>diameter near nm not<br>pore | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>12:36 |
| S26 | 1467 | catalyst adj particles<br>nm not pore                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>12:38 |
| S27 | 1467 | catalyst adj particles<br>nm not pore catalyst         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>12:38 |
| S28 | 1254 | catalyst adj particles<br>nm not pore catalyst<br>size | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>12:39 |
| S29 | 140  | catalyst near particles<br>nm near thickness           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>12:51 |

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| S30 | 79   | catalyst near particles size near thickness        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>12:52 |
| S31 | 1445 | catalyst particles size near thickness             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>12:52 |
| S32 | 807  | catalyst particles size near thickness atom        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>12:52 |
| S33 | 6361 | catalyst adj layer and thickness                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>13:53 |
| S34 | 1949 | catalyst adj layer and thickness atom              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>13:53 |
| S35 | 3    | catalyst adj layer and thickness near atom         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>13:53 |
| S36 | 1539 | catalyst adj layer and thickness size atom         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>13:53 |
| S37 | 2285 | catalyst adj layer and thickness size (atom or nm) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>13:53 |
| S38 | 173  | catalyst adj layer adj thickness size (atom or nm) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>13:53 |
| S39 | 0    | thickness atalyst adj layer size (atom or nm)      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>13:54 |
| S40 | 2285 | thickness catalyst adj layer size (atom or nm)     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>13:54 |
| S41 | 212  | thickness adj catalyst adj layer size (atom or nm) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>13:54 |

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| S42 | 22  | "HTUPS"                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>14:43 |
| S43 | 1   | "20070161506"<br>complex adj oxide       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>15:40 |
| S44 | 617 | ten adj atoms                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:32 |
| S45 | 235 | hundred adj atoms                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:32 |
| S46 | 51  | hundred adj atoms<br>catalyst            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:34 |
| S47 | 247 | ten adj atoms catalyst                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:35 |
| S48 | 0   | thousandadj atoms<br>catalyst            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:37 |
| S49 | 42  | thousand adj atoms<br>catalyst           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:37 |
| S50 | 40  | two thousand adj<br>atoms catalyst       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:38 |
| S51 | 0   | tw adj o thousand adj<br>atoms catalyst  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:38 |
| S52 | 0   | two adj thousand adj<br>atoms catalyst   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:38 |
| S53 | 0   | three adj thousand<br>adj atoms catalyst | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:39 |

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|-----|-------|-------------------------------------------------------------|-------------------------------------------|-----|----|---------------------|
| S54 | 0     | five adj thousand adj<br>atoms catalyst                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:39 |
| S55 | 0     | five adj hundred adj<br>atoms catalyst                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:39 |
| S56 | 0     | catalyst specific adj<br>surface adj area                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:55 |
| S57 | 16961 | catalyst specific adj<br>surface adj area                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:55 |
| S58 | 1148  | catalyst adj layer<br>specific adj surface<br>adj area      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:55 |
| S59 | 6     | catalyst adj layer near<br>specific adj surface<br>adj area | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:56 |
| S60 | 497   | catalyst near specific<br>adj surface adj area              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>16:58 |
| S61 | 0     | "4554291" and finely<br>adj divided adj<br>particles        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>17:14 |
| S62 | 1     | "4554291" and finely<br>adj divided adj<br>particles        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | AND | ON | 2008/08/28<br>17:14 |

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